

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for generating radiation by means of excimer discharge, equipped with an at least partly UV-transparent discharge vessel (1), the discharge space (2)—of which is filled with a gas filling, with means for igniting and maintaining an excimer discharge (4, 5)—in the discharge space, and with a coating (3)—comprising a light-emitting compound of the following composition:



wherein Ln is a cation selected from the group Ce<sup>3+</sup>, Pr<sup>3+</sup>, Sm<sup>3+</sup>, Eu<sup>3+</sup>, Gd<sup>3+</sup>, Tb<sup>3+</sup>, Dy<sup>3+</sup>, Er<sup>3+</sup>, Tm<sup>3+</sup> and Yb<sup>3+</sup>,

and M is a cation selected from the group Na<sup>+</sup>, K<sup>+</sup> and Rb<sup>+</sup>, with

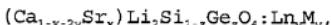
$$0 \leq x \leq 0.1, \quad 0.001 \leq y \leq 0.2 \quad \text{and} \quad 0 \leq z \leq 1.$$

2. (Currently Amended) A The device as claimed in claim 1,  
characterized in that wherein the coating (3) is equipped with a  
light-emitting compound of the following composition:



Claims 3-4 (Canceled)

5. (Original) A light-emitting compound of the following  
composition:



wherein Ln is a cation selected from the group  $\text{Ce}^{3+}$ ,  $\text{Pr}^{3+}$ ,  $\text{Sm}^{3+}$ ,  $\text{Eu}^{3+}$ ,  
 $\text{Gd}^{3+}$ ,  $\text{Tb}^{3+}$ ,  $\text{Dy}^{3+}$ ,  $\text{Er}^{3+}$ ,  $\text{Tm}^{3+}$  and  $\text{Yb}^{3+}$ ,

and M is a cation selected from the group  $\text{Na}^+$ ,  $\text{K}^+$  and  $\text{Rb}^+$ ,  
with

$$0 \leq x \leq 0.1, \quad 0.001 \leq y \leq 0.2 \text{ and } 0 \leq z \leq 1.$$

6. (Original) A light-emitting compound of the following  
composition:



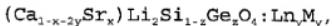
7. (New) A disinfection device for disinfecting material

comprising a radiation source, the radiation source being configured to generate radiation by an excimer discharge, wherein the radiation source includes:

    a partly UV-transparent discharge vessel filled with a gas filling and coated with a coating, and

    at least one electrode configured to ignite and maintain the excimer discharge in the discharge space,

    the coating comprising a light-emitting compound of the following composition:



wherein Ln is a cation selected from the group  $\text{Ce}^{3+}$ ,  $\text{Pr}^{3+}$ ,  $\text{Sm}^{3+}$ ,  $\text{Eu}^{3+}$ ,  $\text{Gd}^{3+}$ ,  $\text{Tb}^{3+}$ ,  $\text{Dy}^{3+}$ ,  $\text{Er}^{3+}$ ,  $\text{Tm}^{3+}$  and  $\text{Yb}^{3+}$ ,

and M is a cation selected from the group  $\text{Na}^+$ ,  $\text{K}^+$  and  $\text{Rb}^+$ , with

$$0 \leq x \leq 0.1, 0.001 \leq y \leq 0.2 \text{ and } 0 \leq z \leq 1.$$

8. (New) The disinfection device of claim 7, wherein the material includes at least one of water, air, and material on or forming surfaces.

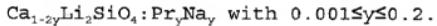
9. (New) A disinfection device for disinfecting material

comprising a radiation source, the radiation source being configured to generate radiation by an excimer discharge, wherein the radiation source includes:

a partly UV-transparent discharge vessel filled with a gas filling and coated with a coating, and

at least one electrode configured to ignite and maintain the excimer discharge in the discharge space,

the coating comprising a light-emitting compound of the following composition:



10. (New) The disinfection device of claim 9, wherein the material includes at least one of water, air, and material on or forming surfaces.